

### **ABSTRACT**

The invention relates to a transmission system in which the crankshaft (V) of a combustion engine (M) is coupled via a transmission device using flexible links, particularly of the belt type, to a shaft (1) of an alternator-starter (ATD), characterized in that it has a two-state coupling device, the states being a first state corresponding to a phase for starting the engine, in which the shaft (1) of the alternator-starter (ATD) drives the crankshaft (V) of the engine (M) with a first transmission ratio, and a second state in which the crankshaft (V) of the engine (M) drives the shaft (1) of the alternator-starter (ATD) with a second transmission ratio, and in that the first transmission ratio is higher than the second transmission ratio.

**FIGURE 1B.**